WHAT IS CLAIMED IS:

1. A liquid crystal panel, comprising:

a front plate;

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a rear plate including a plurality of pixel electrodes, wherein the pixel electrodes are grouped in pairs, every two pairs of the pixel electrodes are separated by a groove, and the pixel electrodes of each pair of the pixel electrodes are separated by a protrusion; and

a liquid crystal layer, with which the space between the front plate and rear plate is filled, wherein the liquid crystal layer has liquid crystal molecules in vertical alignment mode.

- 2. The liquid crystal panel according to claim1, wherein the protrusion is made of dielectric material of low dielectric constant.
- 3. The liquid crystal panel according to claim 2, wherein the protrusion has a dielectric constant of smaller than 10.
- 4. The liquid crystal panel according to claim 2, wherein the protrusion is made of silicon dioxide.
- 5. The liquid crystal panel according to claim 1, wherein the front plate and the second plate are apart in a cell gap and the protrusion has a height of at least one fifth of the cell gap.

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- 6. The liquid crystal panel according to claim 1, wherein the groove has a first inclination and a second inclination, and the first inclination is opposite to the second inclination.
- 7. The liquid crystal panel according to claim 1, wherein the protrusions and the grooves are arranged alternately.
 - 8. The liquid crystal panel according to claim 1, wherein the groove has a depth equal to that of the pixel electrodes.
 - 9. The liquid crystal panel according to claim 1, wherein the rear plate further comprises an insulating layer, the pixel electrodes are disposed above the insulating layer, and the groove has a depth larger than that of the pixel electrodes.

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